

Cosmic Chemistry: Understanding Elements

Element Research

STUDENT ACTIVITY

Your group is going to choose a group of elements on the periodic table. Each student is going to research one element in that group or family. You will be finding the information on the computer using the either [[chemical elements.com](http://chemical-elements.com)] or [[chemicool](http://chemicool.com)] Web site. (See below for full Web address.)

Your first job will be to find a group on the periodic table. Your group may choose your top three from the following list:

Alkali Metals
Metalloids

Alkaline Earth
Non-metals

Transition Metals
Noble Gases

Other Metals
Rare Earth

(Circle your top three choices)

Our group will research the _____ group.

Decide which element within this group that you would like to learn more about.

I will research the element _____.

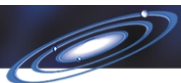
On the Internet, open either <http://www.chemicalelements.com/> or <http://www-tech.mit.edu/chemicool/>.

Find the following information about your element:

- Atomic symbol _____
- Atomic number _____
- Atomic mass _____
- Electron configuration _____
- Number of neutrons _____
- Melting point _____
- Boiling point _____
- Color _____
- Date of discovery

- Draw its atomic structure in the box at right:





- Isotopes _____

- Uses for your element _____

- This element is obtained from _____

Click on related links on the Web site to find more information about your element.

Create a poster of the information found on the element. The poster should contain all of the information that was found on the computer and any additional information. The poster should be colorful and represent the information in a graphic format.